Inhoffenstr. 7b, D-38124 Braunschweig, Germany Tel. +49-531-2616.161,FAX +49-531-2616.150 E-Mail: mutz@dsmz.de

http://www.dsmz.de

INFORMATION SHEET FOR CELL LINES

Cell Line:

COLO-699

Cell Type:

human lung adenocarcinoma

DSMZ No:

ACC 196

Origin:

established from the pleural fluid of a 57-year-old woman with adenocarcinoma of the

lung in 1986

References:

not published

Depositor:

Dr. G. E. Moore, Colorado Oncology Foundation, Denver, Colorado, USA

DSMZ Cell Culture Data:

Morphology:

adherent, epitheloid cells growing as monolayers

Medium:

90% RPMI 1640 + 10% FBS

Subculture:

split confluent cultures every 2-3 days using trypsin/EDTA; seed out about 1-2 x 10°

cells/175 cm²

Incubation:

at 37 °C with 5% CO.

Doubling Time:

ca. 38 hours

Harvest:

cell harvest of about 12 x 106 cells/175 cm2

Storage:

frozen with 70% medium, 20% FBS, 10% DMSO at about 1 x 10 $^{\rm h}$ cells/ampoule

DSMZ Scientific Data:

Mycoplasma:

negative in DAPI, microbiological culture, RNA hybridization assays

Immunology: cytokeratin -, cytokeratin-8 -, cytokeratin-18 -, desmin -, endothel -, GFAP -,

neurofilament -, vimentin +; cells are HMB-45 -positive (this marker is highly associated

with melanomas - hence the cells may be melanoma-derived)

Fingerprinting:

Cytogenetics:

multiplex PCR of minisatellite markers revealed a unique DNA profile

Species:

confirmed as human with IEF of AST, MDH

human hypertriploid karyotype with 2% polyploidy - 70(62-72) < 3n > XX, -X, +1, +3, -4, +6, +7, +7, +8, -9, -10, +12, -14, -16, -17, -17, +18, +20, der(2)t(2;10)(q27;q12),

der(7)t(7;?)(p21;?)x2, i(10q), der(11)t(8;11)(q12;q14), idic(16q), der(21)t(21;?)(p12;?)x2 - a supernumerary small ring chromosome was present in 28% cells - corresponds to

Viruses:

ELISA: reverse transcriptase negative; PCR: EBV -, HBV -, HCV -, HHV-8 -, HIV -,

According to the DSMZ-Protocols of Identity-, Quality and Characterization Programs (see http://www.dsmz.de/human_and_animal_cell_lines Quality Control for details).

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INFORMATION SHEET FOR CELL LINES

Cell Line:

CACO-2

Cell Type:

human colon adenocarcinoma

DSMZ No:

ACC 169

Origin:

established from the primary colon tumor (adenocarcinoma) of a 72-year-old Caucasian

man in 1974

References:

Fogh et al., J. Natl. Cancer Inst. 58: 209-214 (1977); Rousset, Biochimie 68: 1035-1040

(1986); Bacher et al., Exp. Cell Res. 200: 97-104 (1992)

Depositor:

Prof. A. Bacher, Technical University of Munich, Munich, Germany

DSMZ Cell Culture Data:

Morphology:

epithelial adherent cells; after splitting cells start to grow in colonies

Medium:

80% MEM (with Earle's salts) + 20% FBS + 1x non-essential amino acids

Subculture:

cells grow slowly; split confluent culture 1:6 to 1:10 every 5-7 days using trypsin/EDTA

or, if necessary, a cell scraper; after thawing cells might start slowly to take up growth;

seed out at ca. 1 x 10^6 cells/80 cm² in 10 ml medium

Incubation:

at 37 °C with 5% CO,

Doubling Time:

ca. 80 hours

Harvest:

about 5-8 x 106 cells/80 cm2

Storage:

frozen with 70% medium, 20% FBS, 10% DMSO at about 1-3 x 106 cells/ampoule

DSMZ Scientific Data:

Mycoplasma:

contamination was eliminated with BM-Cyclin (tiamulin & minocycline), then negative in

microbiological culture, RNA hybridization, PCR assay

Immunology:

cytokeratin +, cytokeratin-7 -, cytokeratin-8 +, cytokeratin-17 -, cytokeratin-18 +, desmin -, endothel -, GFAP -, neurofilament -, vimentin -

Fingerprinting:

unique DNA profile using multiplex PCR at D1S80, D2S44, D17S5 and ApoB

Species:

confirmed as human with IEF of MDH, NP

Viruses:

ELISA: reverse transcriptase negative; PCR: EBV -, HBV -, HCV -, HHV-8 -, HIV -,

According to the DSMZ-Protocols of Identity-, Quality and Characterization Programs (see http://www.dsmz.de/human_and_animal_cell_lines Quality Control for details).

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INFORMATION SHEET FOR CELL LINES

Cell Line:

23132/87

Cell Type:

human gastric adenocarcinoma

DSMZ No:

ACC 201

Origin:

established from the primary tumor of a 72-year-old man with gastric adenocarcinoma in

1987

References:

Vollmers et al., Virchows Archiv B Cell Pathol. 63: 335-343 (1993)

Depositor:

Dr. H. P. Vollmers, Institute for Pathology, Würzburg, Germany

DSMZ Cell Culture Data:

Morphology:

adherent epithelial cells growing as confluent monolayers

Medium:

90% RPMI 1640 + 10% FBS

Subculture:

split confluent culture 1:8 every 5-6 days using trypsin/EDTA; seed out with 1-2 x

106/25 cm2 flask; initially after thawing, cells may grow slowly and loosely adherent

Incubation:

at 37 °C with 5% CO,

Doubling Time:

about 50 hours

Harvest:

cell harvest of about 0.3 x 106 cells/cm2

Storage:

frozen with 70% medium, 20% FBS, 10% DMSO at about 1-3 x 106 cells/ampoule

DSMZ Scientific Data:

Mycoplasma:

contamination was eliminated with Ciprobay (ciprofloxacin), then negative in DAPI,

microbiological culture, RNA hybridization assays

Immunology:

cytokeratin +, cytokeratin-7 +, cytokeratin-8 +, cytokeratin-17 +, cytokeratin-18 +,

desmin -, endothel -, GFAP -, neurofilament -, vimentin -; (initial data published by the

originators showed negativity, we found the cells to express cytokeratin-7)

Fingerprinting:

multiplex PCR of minisatellite markers revealed a unique DNA profile

Species:

confirmed as human with IEF of AST, MDH

Cytogenetics:

human hypertetraploid karyotype with 12% polyploidy - 47(45-52)<2n>XY, +20,

t(1;15)(p11;p11), t(6;12) (p21;q21), i(13q), t(13;14)(p10;q10) - closely resembles

Viruses:

ELISA: reverse transcriptase negative; PCR: EBV -, HBV -, HCV -, HHV-8 -, HIV -,

According to the DSMZ-Protocols of Identity-, Quality and Characterization Programs (see http://www.dsmz.de/human_and_animal_cell_lines Quality Control for details).

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INFORMATION SHEET FOR CELL LINES

Cell Line:

DU-145

Cell Type:

human prostate carcinoma

DSMZ No:

ACC 261

Origin:

established from the tumor tissue removed from the metastatic central nervous system

lesion of a 69-year-old man with prostate carcinoma in 1975

References:

Mickey et al., in "Models for Prostate Cancer" (ed. G.P. Murphy), Alan R. Liss, 1980, p.

Depositor:

obtained from DKFZ Tumorbank, Heidelberg, Germany

DSMZ Cell Culture Data:

Morphology:

epithelial-like adherent cells growing as monolayers

Medium:

90% RPM1 1640 + 10% FBS

Subculture:

split confluent culture 1:3 to 1:5 every 2-3 days using trypsin/EDTA; seed out at ca. 2-3 x

106 cells/80 cm²

Incubation:

at 37 °C with 5% CO,

Doubling Time:

about 30-40 hours

Harvest:

cell harvest of about 35 x 106 cells/175 cm²

Storage:

frozen with 70% medium, 20% FBS, 10% DMSO at about 1-2 x 106 cells/ampoule

DSMZ Scientific Data:

Mycoplasma:

negative in DAPI, microbiological culture, RNA hybridization, PCR assays

Immunology:

cytokeratin +, cytokeratin-7 +, cytokeratin-18 +, cytokeratin-17 -, cytokeratin-18 +,

desmin -, endothel -, GFAP -, HMB-45 -, neurofilament -, vimentin +

Fingerprinting:

multiplex PCR of minisatellite markers revealed a unique DNA profile

Species: Cytogenetics: confirmed as human with IEF of AST, MDH, NP

human hypotriploid karyotype with 12% polyploidy - 62(58-65)<3n>X, -X/Y, -X/Y, -2, -3, +5, -8, -10, -13, +15, +15, -16, -18, -19, -20, -21, -22, +3mar, del(1)(p31),

del(2)(p11), i(5p), del(6)(q22), del(9)(p12), del(11)(q23), der(12)t(11;12)(q11;p11), add(13)(q33), add(13)(q33), add(15)(p11)x2, add(16)(q24) - closely resembles reported

Viruses:

ELISA: reverse transcriptase negative; PCR: EBV -, HBV -, HCV -, HHV-8 -, HIV -,

According to the DSMZ-Protocols of Identity-, Quality and Characterization Programs (see http://www.dsmz.de/human_and_animal_cell_lines Quality Control for details).

Cultures

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INFORMATION SHEET FOR CELL LINES

Cell Line:

BM-1604

Cell Type:

human prostate carcinoma (derivative of DU-145)

DSMZ No:

ACC 298

Origin:

cytogenetic analysis and DNA fingerprinting at the DSMZ documented that this cell line is identical with the human prostate carcinoma-derived cell line DU-145 (DSM ACC 261), but shows some phenotypical differences; DU-145 was established from the tumor tissue removed from the metastatic central nervous system lesion of a 69-year-old man with

References:

Van Helden et al., Brit. J. Cancer 70: 195-198 (1994)

Depositor:

Dr. E. M. Bey, Highveld Biological Ltd., National Repository for Biological Materials,

Sandringham, Kelvin, South Africa

DSMZ Cell Culture Data:

Morphology:

epithelial-like cells growing as monolayers

Medium:

85% RPMI 1640 + 15% FBS

Subculture:

split confluent culture using trypsin/EDTA; seed out at ca. 2-3 x 106 cells/175 cm²

Incubation:

at 37 °C with 5% CO.

Doubling Time:

doubling time highly variable, about 60 hours

Harvest:

cell harvest of about 10 x 10° cells/175 cm² frozen with 70% medium, 20% FBS, 10% DMSO at about 3 x 10° cells/ampoule

Storage: f

DSMZ Scientific Data:

contamination was eliminated with Mycoplasma Removal Agent, then negative in DAPI,

microbiological culture, RNA hybridization, PCR assays

Mycoplasma: Immunology:

cytokeratin +, cytokeratin-7 +, cytokeratin-8 +, cytokeratin-17 -, cytokeratin-18 +,

desmin -, endothel -, GFAP -, neurofilament -, vimentin +

Fingerprinting:

same DNA profile as DU-145 using multiplex PCR of minisatellite markers

Species:

confirmed as human with IEF of AST, MDH

Cytogenetics:

human hypotriploid karyotype with 22% polyploidy - 59(55-63)<3n>X, -X/Y, -Y, -2, -3, -4, -7, -8, -14, -16, -19, -20, -21, -22, +5mar (inc bisat x2-3), del(1)(p31), del(2)(p12), i(5p), del(6)(q22)/add(6)(q?12), der(6)(4(36)(q22)p22.3), del(9)(p21), add(10)(q24-q25).

add(11)(p11), t(11;?22)(q24;q13)/del(11)(q23), der(12)t(5;12)(q13;p12.3), add(13)(q33)x2, add(13)(q33), add(15)(p11), der(18)t(14;18) (q11;q12.3)x1-2 - sideline

with del(2)(p23), i(8q) - closely related to DU-145

Viruses:

ELISA: reverse transcriptase negative; PCR: EBV -, HBV -, HCV -, HHV-8 -, HIV -,

According to the DSMZ-Protocols of Identity-, Quality and Characterization Programs (see http://www.dsmz.de/human_and_animal_cell_lines Quality Control for details).

DSMZ - DEUTSCHE SAMMLUNG VON MIKROORGANISMEN UND ZELLKULTUREN

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MATERIAL TRANSFER AGREEMENT

between the DSMZ and the Recipient of Cell Line(s) And Order Form for Cell Lines or DNA

The material(s) listed below will be made available subject to the following conditions:

- 1.The DSMZ provides cells and DNA as a service to the research community. These materials are for research purposes only and not for use in humans.
- 2. Unmodified material, including their progeny shall not be sold or used for commercial purposes without the written consent of the DSMZ on behalf of the original depositor.
- 3. The undersigned confirms (also on behalf of his institution) to be the end user of the material. The material shall not be distributed or passed on to third parties.
- 4. Appropriate reference shall be made in any ensuing publication(s), crediting to the work of the original investigator who established the cell line(s). No alteration may be made to its DSMZ title or acronym.
- 5. It is understood that neither the DSMZ nor the depositor of the cells accept any liability whatsoever in connection with the receipt, handling, storage or use of the cell line(s).
- 6. The undersigned accepts (also on behalf of his institution) the conditions of ordering, delivery and payment of the DSMZ.

Typed or printed name of recipient			Date		Signature
Company/University		Institute (Department, room etc.)			
Complete addre	ess				
Telephone/Fax		e-mail			VAT no. (for EU countries)
Your purchase order no. (if applicable)			Your customer no. (if known)		
Quantity	Cell Line:	ACC No:	Quantity	Cell Line:	ACC No:
indicate:	DNA	growing cultures	s frozen cultur		cell pellets (non viable)